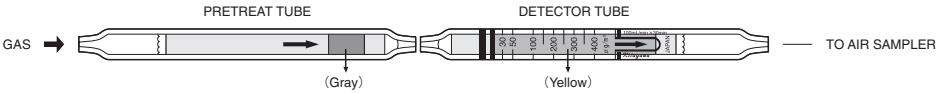
Tube No.
760

TETRACHLOROETHYLENE



1. PERFORMANCE

1) Measuring range : 30-400 $\mu g/m^3$ 69-920 $\mu g/m^3$
2) Sampling time : 100mℓ/min × 30min 100mℓ/min × 15min
3) Detectable limit : 5 $\mu g/m^3$ (100mℓ/min × 30min)
4) Shelf life : 1 year
5) Operating temperature : 0 ~ 40℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated at the sampling of 100mℓ × 30min
8) Colour change : Yellow → Purple red

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

By reacting with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.

$Cl_2C = CCl_2 + PbO_2 + H_2SO_4 \rightarrow HCl$

4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Tetrachloroethylene	Similar stain is produced.	Higher readings are given.
1,2-Dichloroethylene	〃	〃
Vinyl chloride	〃	〃

(NOTE)

Air sampler is required for this tube.

TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION (20℃ standard)

Temp(℃)	0	1	2	3	4	5	6	7	8	9
0	1.71	1.66	1.62	1.58	1.54	1.50	1.46	1.42	1.39	1.35
10	1.31	1.28	1.24	1.21	1.18	1.15	1.12	1.09	1.06	1.03
20	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.83	0.81	0.79
30	0.77	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63
40	0.61	—	—	—	—	—	—	—	—	—